

**ABSTRACT OF THE DISCLOSURE**

An automated system for upstream, chemical disinfection of wet and dry weather water flows. The system combines 5 chemical disinfection with a sophisticated feed-back control model for efficient disinfection rates and optimized consumables usage without the generation of environmentally-damaging residues. The model is steered by inputs from an array of sensors measuring key physiochemical and biological 10 parameters. The system is designed to optionally permit remote access via computer networks such as the Internet or telemetry.

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